



A Newsletter
for Alumni
and Friends

College of
Engineering

University
of Hawaii
at Manoa

Summer 1993

ME student lands Co-op job with Disney



A student from the College of Engineering used his vivid imagination and solid engineering background to land an apprenticeship with the designers of Disneyland.

Darryl Kanno, a senior in mechanical engineering, left early in July to begin his Co-operative job at the Walt Disney Imagineering Studios in Glendale, California. For about six months, Kanno will be working with an air conditioning and refrigeration specialist.

Kanno's position with Disney came as a result of his team's winning entry in the 1993 Walt Disney Imagineering Design Competition.

Open to colleges and universities with a high minority enrollment, the competition encourages students to invent and design rides for the famous theme park. Disney picks the top

Please see ME student. . . , page 4

Lokahi wins first-place in canoe design

The University of Hawaii Concrete Canoe Team came close to finishing first-place overall at the 1993 Pacific Southwest Conference Concrete Canoe Competition, held last March at the California State University - Northridge.

The competition included four parts: finished canoe, design paper, poster board display, and race competition. UH faced 17 other schools from Arizona, Nevada and Southern California.

Leading into the final round of the race competition, members of the

team were paddling hard toward UH's first ever overall victory when their canoe "Lokahi" submerged about 15 feet away from the finish.

Lokahi was disqualified in the final round and as a result, the UH team came in second place overall, close behind the winning team from Northern Arizona University.

"If we had crossed the finishing line, we'd have qualified and won," said John Katahira, member of the canoe team and president of the

Please see Concrete canoe, page 2

Lokahi is the fourth canoe from the University of Hawaii to be named best designed canoe at the Pacific Southwest Conference Concrete Canoe Competition. The word "lokahi" means "togetherness" or "unison" in Hawaiian.



The 1993 ASCE Concrete Canoe Team: Top, Anna Tam. Middle (L to R) : John Chung, John Katahira, Edwin Barlongo, Kyle Teraoka, Mark Nakagawa, Dennis Lopez. Bottom (L to R): Stacie Kikuchi, Michelle Sakamoto, Lorna Lee, Ivy Abamonga, Denise Dang, Audrey Uyema.

New EE professor secures research grant

Although new to the electrical engineering department, Assistant Professor Joy Laskar has already distinguished himself by securing a significant research grant.

Awarded by Cascade Microtech Inc. (CMI), the grant is valued at \$68,732 and has been matched by \$33,407 from the UH Office of Research Administration.

The grant will provide Laskar with two state-of-the-art probe systems to conduct a joint project between CMI and UH, entitled "Advanced Microwave and Millimeter-Wave On-Wafer Probing Applications."

According to Laskar, the research will enable him to develop calibration techniques for high frequency equipment to determine how electromagnetic waves are propagated between various structures.

Also, the research will give him a chance to prototype the next generation of probes as well as to design better circuits for devices at high frequencies.

Laskar's research will impact a number of disciplines including high speed packaging, analog and digital electronics, physics and infrared sensing.

Results from his research will have practical applications in personal communication systems, including cellular phones, global positioning systems and wireless computer connections.

The research will also contribute to the development of high performance, low-noise amplifiers, which will enable scientists at NASA to study the deep space using both ground-based and satellite-based communication systems.

Laskar began his research last spring. The project is time consuming but allows him to be in touch with the industry and to make contributions.

"To do cutting-edge work, you have to put in the time," Laskar said.

Laskar's research will contribute to advances in the study of high frequency signals in various complicated structures; the research facility that he has set



Joy Laskar and one of two probe systems granted by CMI.

up will lay the foundation for future faculty and student research in related areas.

In addition, the research facility will impact the efforts of many researchers across the University, including those in the College, the Institute for Astronomy and the Hawaii Institute of Geophysics.

Joy Laskar's interest in the physical behavior of electromagnetics dates back to his graduate work at the University of Illinois at Urbana-Champaign. In 1988, while he was a graduate research assistant, Laskar developed the first cryogenic on-wafer measurement system.

Concrete canoe

continued from front page

Hawaii Student Chapter of the American Society of Civil Engineers.

Katahira explained that Lokahi submerged due to its low freeboard, which did not fare well when the winds picked up and the water grew choppy toward the end of the race.

However, the low freeboard did not stop the UH team from winning the canoe design portion of the competition. Lokahi represents a technological merge of successful ideas from previous canoe constructions and innovations made by this year's team.

Compared to last year's canoe "Tuahine," Lokahi has a much lighter concrete mix and more directional stability. The team

had started as early as last year to come up with its "floating" concrete mix.

"We started designing last summer and tested several mixes in August," said Lorna Lee, co-chair of the UH team. "We ended up with one that consisted of cement, expanded shale - a lightweight aggregate to take the place of rocks, glass bubbles in the place of sand, and water."

In the quest of a light yet strong concrete mix, the team spent numerous hours testing different mixtures at Hawaiian Cement, which provided the team with free testing material. Their hard work paid off.

"We put it all together during Christmas break. The mix we came up with actually floats. It's lighter than water," Lee said.

To maximize Lokahi's directional stability, the team built it in the shape of a kayak, which acted

as a built-in rudder, said Katahira.

Lokahi's shape proved instrumental in keeping the canoe straight during the races, making UH one of the fastest teams at the competition.

"[Lokahi] went really straight, in fact, it went too straight that we had a hard time turning," Katahira said. "As it turned out, though, [the turning] wasn't too bad. But design-wise, we should find a happy medium."

Besides building the canoe, the team also trained physically to prepare for the canoe races. They did aerobic exercises, weight training and paddling in the Ala Wai Canal.

"We practiced so much!" said Ivy Abamonga, member of the canoe team. "It was worth it, now I can paddle. . ."

Please see Canoe, page 18

Congratulations Spring 1993 graduates

Doctor of Philosophy Mechanical Engineering

Shyam S. Kocha

Master of Science Civil Engineering

S. Balaji

Eduardo Chan

Donald W. Clause

Lam T. Ma

Richard Sauerwein, Jr.

Katherine Woodward

Electrical Engineering

Qunshan Du

Clinton K. Hee

Shawn J. Oles

Shyh-Shiow Yur

Donggen Zhang

Mechanical Engineering

Xiangfeng Dai

Dehui Yu

Bachelor of Science Civil Engineering

Ivy C. Abamonga

Norman D. Abe

Mike Araki

Neil M. Asato

Edwin L. Barlongo

Valentin E. Bueno

Denise M. Dang

Chadwick K. Fukunaga

Gavin T. Hubbard

Gregory A. Lee

Kevin B. Lee

Lorna K. Lee

Kevin T. Mori

Julie A. Muraoka

Clay J. Naito

Mark A. Nakagawa

Lance S. Nakamura

Bernice M. Pabingwit

Ty M. Takeno

Sheila K. Taketa

Charmaine Trinh

Brian H. Tyau

Audrey K. Uyema

Hye Jin K. Warren

Denise Y.M. Wong

Jon K. Yoshinaga

Electrical Engineering

Keith M. Asato

Wendy M. Asato

Wan Ping Chu

Jason T. Doan

Eduardo B. Guieb

Kevin T. Kamisugi

Leonard Y.M. Lau

James J. Lee

Michael M. Noji

Karen O. Parayno

Lee M. Tokuda

Ken S. Van Orman

Michael E.O. Villanueva

Eric K.M. Wong

Cynthia Yoshimoto

Darin M. Yokoyama

Tie Yu

Mechanical Engineering

Fooney E. Freestone

Victor C. Han

Raymond W.M. Liu

Herminio M. Mapa, Jr.

Glenn G. Niitani

Derek M. Sato

Kai Sin Sit

Shannon T. Suzuki

Karl A. Takayanagi

Ross R. Tanaka

Keith S. Yamamoto

During the graduation recognition ceremony, each engineering graduate was called upon by the respective department chairman to receive a certificate of recognition.

Ceremony recognizes engineering graduates

The College of Engineering Spring 1993 graduates were a step ahead of the rest of the University's graduates in receiving recognition for their years of hard work.

On the eve of graduation while most graduates were getting ready for the big day ahead, the College's graduates gathered at the East-West Center for a pre-graduation recognition ceremony. They shared this special occasion with families, friends and the engineering faculty.

Gayle Takasaki, vice chairwoman of the Engineers Council and Interim Dean Reginald Young welcomed those in attendance during the opening of the ceremony. Graduating class representatives from the three departments followed with their individual remarks.

Commencement address speaker John Arizumi (ME 69), president & general manager of Carrier Hawaii, stressed the importance of goal-setting. He said that one could not succeed without a goal.



Left to right: Charmaine Trinh, Lo Lor Thippavong, Interim Dean Reginald Young, Denise Dang and Hye Jin Warren.

Arizumi urged the graduates to find jobs that truly excite them.

"Get a job that will make you jump out of the bed in the morning... and the money will come later," he said.

Following Arizumi's address, Dean Young presided over the recognition of award recipients. Some of the recipients were:

- Civil Engineering Outstanding Senior Award - Lorna Lee
- Electrical Engineering Outstanding Senior Award - Colin Wright

- Mechanical Engineering Outstanding Senior Award - Ross Tanaka

- Robert Edwin Hughes Award - Clay Naito

Before the closing of the ceremony, Director of the Engineering Alumni Association Randolph Murayama urged the graduates to stay in touch with the College.

The ceremony was followed by a reception where graduates received leis and congratulatory handshakes.

ME student works at Disney

Darryl Kanno's team is the third student design team from UH to work for Disney through the Co-op. Those who returned from their jobs at Disney found the work rewarding and the working atmosphere friendly.



Darryl Kanno

continued from front page

three entries nationally and awards the creators an opportunity to work as apprentices to architects, engineers and set designers at the Disney Studios, where Disney rides are born.

Beginning last December, Kanno teamed up with architecture student Greyson Lum and art student Owen Yoshino to create a ride called "Dream Spell." They took second-place at the UH campus-level competition and went on to surprise everyone including themselves with a second-place finish at the national level. The first-place design from UH did not make it into the top three nationally.

"After we took second-place here, we thought we weren't

going to the mainland because usually the first-place team goes," Kanno said.

But Kanno was pleasantly surprised. After the local judging, the top three entries from UH were forwarded to Disney for consideration in the national competition. The Disney judges chose his team's design.

"When we found out our project made it, we were kind of shocked and happy," Kanno said.

Kanno feels that his team had won because the ride was based on an original story. While other competitors borrowed ideas from popular Disney themes, Kanno and his team met for at least two hours every week-end since last year to come up with their original idea. Along with the brainstorming, the three also spent numerous hours at the children's section in the State Library.

"We read through a lot of children's books to see the format of how they are written," Kanno said.

The storyline of "Dream Spell" follows the adventures of three animal friends. While looking for a ball, the main character Russ stumbles upon a strange book and gets sucked into the pages containing the world of "Dream Spell." There, he meets Ness and Brook. Together, the trio set off for the adventure of their lives.

To return to their respective worlds, they have to get through all the adventures contained within the book.

As the engineer on the team, Kanno was responsible for designing the mechanics of the ride. Using the principles of the hovercraft, he came up with a unique air-track system that allows for a fluid ride in a book-shaped cart.

Kanno attributed part of his team's success to the fact that they had a dynamic combination of students from three different disciplines, who communicated and worked well as a team.

"I don't think our project would have been as thorough if we didn't communicate," he said. We had to be able to talk and compromise."

Besides paid jobs at the Disney Studios, Kanno and his team members each received a \$1,500 grant. Disney also arranged housing and transportation for the team's stay on the mainland.

Kanno is confident that his Co-op job at Disney will enable him to learn more about air conditioning/refrigeration, which is the focus of his undergraduate studies at the College. With about one more year at UH, Kanno has already made plans to join the local air conditioning and refrigeration industry after he graduates.

Engineering students honored for achievements

- Electrical engineering student Colan Kwok was named executive adviser to the United States Presidential Scholars Program. The program recognizes outstanding high school graduates for their achievements in academics, leadership, visual and performing arts or creative writing. Each year, Presidential Scholars receive recognition in Washington, DC, while attending various reception events. As executive adviser to the program, Kwok spent the past semester in the nation's capital, working with the U.S. Department of Education to plan the reception events for the 1993 Presidential Scholars. The events include a ceremony on the White House lawn.

- The Consulting Engineers Council of Hawaii (CECH) has presented two \$1,000 scholarship awards to Micah Ewing (EE) and Thuan Giang

(ME). The CECH selected Ewing and Giang as award winners based on their GPA, essays, work experiences, recommendations and extracurricular activities. The two award recipients were honored at the CECH March luncheon meeting.

- Fooney Freestone (ME) was one of the recipients of the 1992 International Gas Turbine Institute (IGTI) Scholarships. Freestone, a Spring 1993 graduate, ranked at the top of his class. He had received the award by excelling in a course in gas turbines, by showing professional promise, and by being a member of the ASME. The IGTI has been one of the major contributors of scholarships for engineering students. Including its 1992 scholarships, the institute has contributed more than \$500,000 to undergraduate students since 1986.



A Donor
Report For
Alumni and
Friends

College of
Engineering

University of
Hawaii at
Manoa

1992-1993

Message from the Interim Dean



Interim Dean Reginald Young

On behalf of the University of Hawaii College of Engineering, I am pleased to submit to you the donor report for the 1992-1993 fiscal year.

It has been a year of many accomplishments for the College. Thanks to the generous support of our alumni and friends, the College's 1992-1993 fund drive has reached new heights in spite of nation-wide economic recession.

We saw increases in both the number of donors and the amount of donations. The latest count is estimated at \$510,000.

Your contributions have played a key role in funding for the College's scholarships, student activities, faculty support, and relations with the alumni and the industry.

With your strong support, our students have excelled in both academics and related extra-curricular activities.

Our ASCE Concrete Canoe Team took first place in canoe design and second place overall in the race competition at the Pacific Southwest Conference.

Electrical engineering student Lee Tokuda was honored as the HSPE Student Engineer of the Year. Another electrical engineering student, Ronel Pulmano, became the first student to receive an Award of Merit from Mayor Frank Fasi's office.

Mechanical engineering student Darryl Kanno recently flew to California to begin a six-month Co-operative

job with Disney, as a result of his winning entry in the 1993 Walt Disney Imagi-Nations Design Competition.

In Fall 1992, the civil engineering department accepted its first PhD student. The PhD program in civil engineering, one of three PhD programs currently offered by the College, was approved by the Board of Regents last summer.

With the addition of eight new positions, the expertise of our faculty has become more diverse than ever. Several of our new faculty members have already won outstanding faculty awards or received major grants for their research work.

There may soon be renovation work on the first and second floors of Holmes Hall as the College is considering the possibility of expanding office spaces for the faculty and graduate assistants of both civil and mechanical engineering departments.

The long awaited ground-breaking of the Pacific Ocean Science and Technology building is expected to take place between late summer and early fall this year.

The building will be built in the parking lot mauka of Holmes Hall and will house part of the College's program as well as the School of Ocean and Earth Science and Technology, and the Department of Information and Computer Sciences.

We would like to thank you once again for your continued support. Our appreciation goes out to each and every one of you, in particular to Ronald N.S. Ho for his endowment in support of electrical engineering students, to Donald C.W. Kim for his endowment for engineering student activities and to Bob Y.K. Wong for his added contribution to the Geolabs-Hawaii Geotechnical Engineering Endowment.

Reginald Young
Interim Dean

During 1992-1993, the College of Engineering fund drive reached new heights. The amount raised this past year is approximately \$150,000 more than that raised during 1991-1992.

Student achievements and activities



The crowd at the 1993 Engineering Expo watches as ME student Mike Lambert launches a marshmallow with a catapult designed by a group of ME students from the College.

Support from alumni and friends has been key to both the intellectual growth and the social development of our students. Contributions funded student scholarships, design projects and numerous student activities.

During the 1992-1993 academic year, the College awarded a total of 97 undergraduate degrees, 23 masters degrees and two PhD degrees. Although the number of graduates has decreased compared to last year, the quality of our student body has remained as excellent as in the past.

Support from friends and alumni continued to help tremendously in the academic and social developments of our students. The contributions funded scholarships, design projects and a variety of activities both locally and on the mainland.

The scholarships supported our students' pursuits in academia while funding for projects and activities allowed them to develop communication and interpersonal skills, future contacts in the industry, and friendships that will last a lifetime.

Several of our students received individual honors this past year. Lee Tokuda, a Spring 1993 graduate in electrical engineering, was honored as Student Engineer of the Year by the State Chapter of Hawaii Society of Professional Engineers.

Colan Kwock, also an electrical engineering student, received honors for his leadership skills. Named executive advisor to the

United States Presidential Scholars Program, Kwock spent the past semester in Washington, D.C. He worked with the U.S. Department of Education to plan a recognition week for the top high school graduates from around the country.

Our students have also done outstandingly well as Co-op placements through the UH Cooperative Education Program.

Ronel Pulmano, an engineering student who worked at the H-Power waste to energy facility, became the first student to receive an Award of Merit from Mayor Frank Fasi's office. Pulmano's employers said his con-

tributions to the facility were exemplary.

Currently, mechanical engineering student Darryl Kanno is working at the Disney Imagineering Studio through the Co-op program.

Kanno was part of a UH student team that took second place in Disney's Imagi-Nations Design Contest. His team designed a winning ride based on an original story called "Dream Spell."

At Disney, Kanno is working with a specialist in air conditioning and refrigeration, a field that he plans to go into after graduation.

The ASCE Concrete Canoe Team competed in the 1993 Pacific Southwest Conference and captured second place overall.

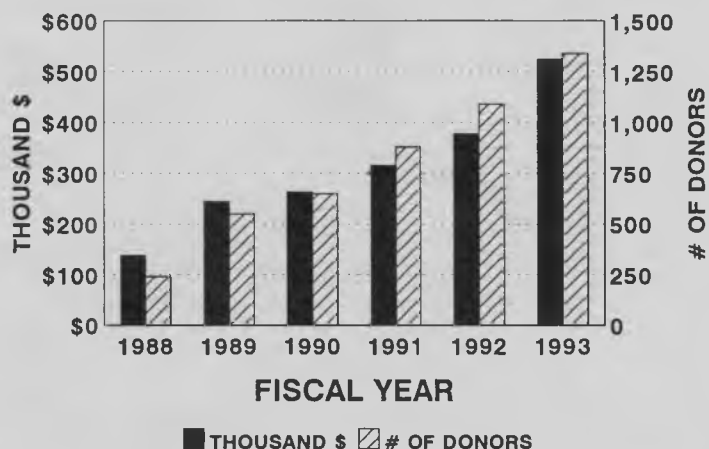
Their canoe "Lokahi," however, stood out from the other 17 canoes and won first place in the design phase of the competition.

The team is optimistic about its chances of winning next year's overall competition, as UH will host the regional conference for the first time.

As part of our tradition of excellence, each year the College hosts a variety of events involving student participation.

Please see Students, page 8

GROWTH IN PRIVATE GIFTS - 1992/1993



NOTE:

Totals include both endowed & annual (expendable) gifts to all engineering funds.

Highlight on faculty honors and research

While private contributions make resources available to our students, the College's faculty and staff act as guiding forces for the students throughout their academic careers.

The faculty at the College of Engineering consists of an international group of diverse talents. Besides educating the future engineers, many of our professors conduct research projects of great importance to the engineering industry.

Your support has been instrumental in keeping our faculty members abreast with the latest advancements in engineering. Private contributions have funded faculty seminars, conferences, publications and recruitment.

The hiring and retention of top-caliber faculty members play key roles in the College's success. During the past academic year, the College hired eight new faculty members. Many of them have already won awards for teaching excellence or received major grants for their research projects.

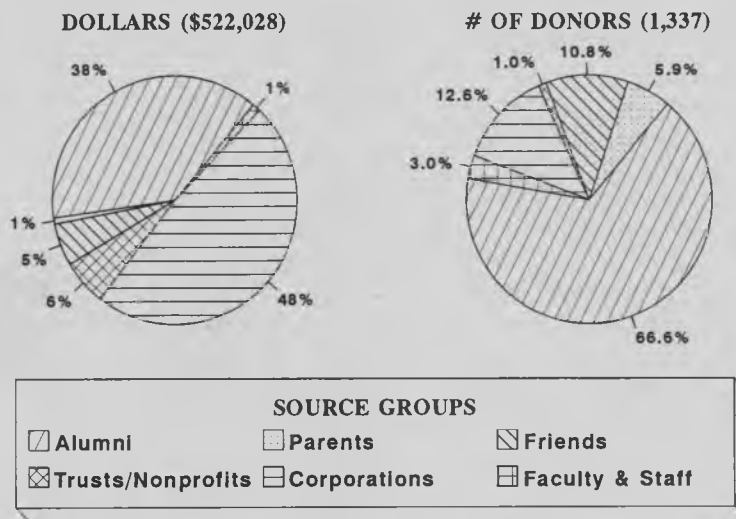
For instance, new Assistant Professors Michelle Teng and Patrick Phelan received Outstanding Faculty honors from the ASCE and the ASME, respectively. The IEEE Outstanding Faculty Award went to assistant professor Vassilis Syrmos.

Joy Laskar, assistant professor of electrical engineering, recently secured the donation of two state-of-the-art probe systems for his research project entitled "Advanced Microwave and Millimeter-Wave On-Wafer Probing Applications."

The systems, donated by Cascade Microtech, Inc., are valued at close to \$70,000. Laskar also received a matching grant of about \$30,000 from the University of Hawaii Office of Research Administration.

Our new faculty members are not alone in their achievements. Harold Hamada, civil engineering department chairman, was honored by fellow engineers as the HSPE Engineer of the Year.

WHERE THE MONEY CAME FROM - 1992/1993



Hamada's educational achievements, technical accomplishments, civic and community contributions, and professional history earned him the title. He is the fourth faculty member from the College to receive the honor. Past awardees include Arthur Chiu, John Shupe and Paul Yuen.

Many of our faculty have received significant research grants from various sources. Recent faculty research projects are as diverse as the faculty members themselves.

Faculty projects include the studies of extreme wind regionalization; 21st century water management; internal waves generated by a moving surface pressure distribution; the developments of coding techniques and circuit network design for high-speed space and personal communication systems; and the invention of underwater testing equipment.

Recently, one of the most notable faculty research projects is the one undertaken jointly by electrical engineering department Chairman Shu Lin and his joint researcher Tadao Kasami, dean of Japan's Advanced Institute of Sciences and Technology.

Together, the two researchers have developed coding theory

and techniques that may play a major role in communication services for NASA's next generation of near-space missions.

Lin and Kasami's research is focused on the improvement of bandwidth efficient coding schemes using a technique called coded modulation in conjunction with concatenation.

The research also aims to reduce the number of transmission errors in high-speed satellite communications.

The College bade farewell to mechanical engineering Professor Hi Chang Chai, who ended a memorable 30-year career at the end of the Fall 1992 semester.

Chai has made many lasting contributions to the College. He organized the ME honor society Pi Tau Sigma Hawaii Chapter in 1969 and served as its advisor for 17 years. He has also been the faculty advisor for ME seniors since 1982.

In 1989, he received the UH Excellence in Teaching Award. He was also named ASME Outstanding Faculty five times. Those who know him say he will be remembered best for his rapport with students and faculty.

Once again, the College would like to thank the alumni and friends who supported the efforts of our faculty members.

The College of Engineering currently has close to 70 faculty members from more than 10 countries, including China, Germany, Greece, India, Iran, Israel, Korea, Poland, South Africa, Taiwan and the United States.

Industry and alumni relations

During the past year, the College of Engineering has made unprecedented efforts to reach out to both the engineering industry and the College's alumni.

By visiting various companies and places where engineering alumni reside, we hoped to exchange services and knowledge with feedback on how our curricula can be improved. Our goals include producing high caliber engineers as well as conducting meaningful and productive research to meet industry's need as we head into the 21st century.

Representatives from the College visited companies such as Hawaiian Electric Company, Oceanic Cable, Bank of Hawaii and First Hawaiian Bank. Several of our faculty members exchanged ideas with practicing engineers who work in these companies to determine areas of mutual interest.

Practicing engineers may not always have the time or the expertise to devote themselves to areas needing research. However, through collaboration with the industry, our faculty can focus their research in these areas and share the finished results with the industry.

In an effort to serve our alumni and to stay informed about current engineering problems and

issues, representatives from the College also visited alumni on the neighbor islands and the mainland.

In conjunction with the Engineering Alumni Association, the College is looking into the possibility of offering short courses in various technical areas, in response to the alumni's need for continuing education courses in engineering.

In order to provide better services to our alumni, the College is considering the establishment of alumni associations in different areas.

On route to visiting engineering alumni on the West Coast, representatives from the College visited companies that employ a good number of UH engineering graduates such as the Boeing Company, Motorola and TRW.

Visits to these companies enabled the College to identify possible avenues of interaction ranging from faculty research and training to student recruitment.

The outreach program is a campaign to promote goodwill and the interchange of ideas. It has proven beneficial both to the improvement of the College's academic program and to those visited. The College plans to continue to reach out and network with more companies and engineering alumni in the near future.

Students

continued from page 6

The 1993 Engineering Expo showcased students' displays and projects ranging from a wireless keyboard for the IBM PC, a TV/Video control device for a quadriplegic person to a vehicle that avoids obstacles.

The Expo attracted more than 700 participants, many of them high school students interested in learning more about engineering. Some elementary and intermediate students also got a head start on checking out the possibility of studying engineering in the future.

This year's Career Night gave several hundred students a chance to meet with prospective future employers and to find out more about job availability in the 90s.

Events such as the Open House for Prospective Freshmen and the Freshman Orientation and Seminar helped the College in student recruitment and retention.

Our students not only excel in school but continue to succeed after graduation. Many of our alumni have attained eminence in their fields.

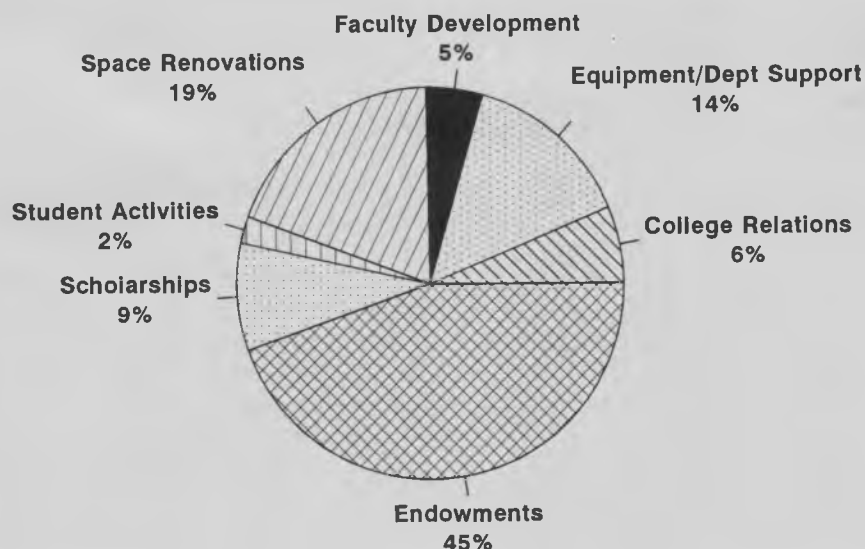
Lance Tokuda (EE 86) is one of the recent success stories. He developed a software called "Resumix 3000," which has the ability of matching up suitable resumes with prospective employers, much like a high-tech dating service.

The software drastically reduces hiring costs and shortens the time for filling in new positions. In fact, the Clinton administration staffed part of the White House using the Resumix software.

With your ongoing support, the College will continue to build upon its tradition of excellence by turning out high-caliber engineering graduates who are ready to solve real-life problems using their engineering knowledge.

"In order for us to produce top engineers, we need to keep in touch with the professional community and that includes our alumni," said Sheryl Nojima, College of Engineering Assistant Specialist.

WHERE THE MONEY WENT - 1992/1993



1992-1993 Engineering Drive Donors

(July 1, 1992 - June 30, 1993)

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Hilo Construction, Inc.
Hilo Engineering, Inc.
Ernest K. Hirata & Assoc., Inc.
Ho'ohana
Ronald N.S. Ho & Assoc., Inc.
J. Brian Hughes & Assoc., Inc.
HVAC Hawaii
Hygrade Electric Company, Ltd.
Ideal Construction, Inc.
T. Iida Contracting, Ltd.
Imata & Associates, Inc.
Inaba Engineering, Inc.
Integrated Construction, Inc.
Isemoto Contracting Co., Ltd.
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Mechanical Systems Corporation
Mega Construction, Inc.
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Engineering Expo educates future engineering students

Last April, many students and staff members from the College of Engineering were sighted at the Campus Center Complex, wearing T-shirts with the words "Expose Yourself" printed on top of the College's logo.

The T-shirts may have puzzled some people, but not the 700 students and teachers who "exposed" themselves to the 1993 Engineering Expo.

Organized by the Engineers' Council of the University of Hawaii, the Expo is designed to increase the public's awareness of how the engineering profession has contributed to the improved quality of life.

Besides showcasing student displays and projects, the Expo also exhibited displays from the Department of Public Works, the American Congress of Surveying and Mapping, the Gas Company, the Board of Water Supply, the Consulting Engineers Council of Hawaii and the U.S. Army Corps of Engineers.

In addition, the Expo helped with the College's recruitment as high school students received invitations to participate first-hand in contests using engineering skills. Also attending were students from Stevenson and Highland Intermediate Schools and Pearl City Elementary, who got a head start on checking out engineering as a possible career.

The 1993 Expo included the following contests:

- Over troubled waters: Participants built matchstick bridges that would support a load over a gap.
- "Blinky" Lights: New to the Expo, this contest challenged students to complete the construction of a given electronic circuit in the shortest time possible.
- Catapult: Students designed and built catapults that would accurately launch a large marshmallow into a bull's eye type container filled with shaving cream.

The Expo featured innovative projects such as a wireless key-

board for the IBM PC using radio frequency, a remote joystick for the Super Nintendo Entertainment System, a TV/Video control device for a quadriplegic person, a music and sound synthesizer, a rechargeable DC to AC converter and a vehicle that avoids

obstacles. The Expo succeeded in educating those who attended what engineering is all about.

"I didn't know that it's so wide-ranging. I thought engineering was just designing buildings and bridges," said Jennifer Ramelb from Mililani High.



Glen Tamashiro (left) and Eric Piliton (right) test a matchstick bridge.

Alumni elect new officers

The Engineering Alumni Association elected new officers and passed new by-laws at the annual general meeting.

Close to 70 people attended the luncheon meeting held in mid-June at the Honolulu Country Club.

Earl Kanehira, outgoing association president, conducted the election of new officers and summarized the Association's events in the past year. Interim Dean Reginald Young gave a recap of the College's events.

New officers for the Engineering Alumni Association are: President Ryo Nakamoto, Vice President Mike Magaoay, Secretary Derek Mukai and Treasurer Nami June Hamaguchi.

Continuing as association directors are Neal Fukumoto, Brian Hashiro, Randy Murayama and Glenn Yee.

In addition to electing new officers, members of the association

also passed new by-laws. The changes include the incorporation of the association and new office terms for officers. The new officers will serve from the first of July this year until the end of June in 1994, a period corresponding to the College's fiscal year.

Guest speaker for the luncheon meeting was Paula Mantel from the Discovery Learning Center.

In her speech "Use It or Lose It - Make the Most of Your Memory," Mantel discussed techniques that can be used to boost memory power, such as internal or external association, repeating, reciting and writing down the items to be remembered.

The meeting ended with the award of door prizes. Six lucky winners went home with gift certificates from Liberty House, Longs Drug Stores and McCully Bicycle & Sporting Goods.

Although most high school students attended the Engineering Expo to fulfill class requirements, fun was no doubt had by all. Many students said they would not hesitate to attend the event again in the future.

Canoe

continued from page 2

The construction of Lokahi provided members of the team with invaluable experiences. It gave them a chance to apply to real life the engineering knowledge that they had previously learned in school. In turn, the hands-on experience taught them new knowledge and made classroom material easier to understand.

"Projects like this give you a good idea of what it's going to be like out there in the real world," Katahira said.

He added that the biggest challenge of the project was learning how to communicate.

"The physical labor part [of the project] wasn't too bad, because we had students come out and help us," he said. "The hardest part was getting together as a team."

Because of UH's geographical isolation, the team could only send about a third of its students to compete on the mainland.

Katahira pointed out that since other schools can afford to send their entire teams, all the members of the team - new and experienced alike, have a chance to learn from exposure to the competition. That way, the knowledge gets passed on from year to year. UH team is at a disadvantage in this regard.

This will not be true next year, however, because for the first time, UH will host the regional competition. The event will be attended by about 250 students and faculty members from the mainland.

With five experienced members returning, the ASCE Concrete Canoe team is optimistic about its chances of winning the regionals next year and going on to compete at the national level.

Edmond Cheng Arthur Chiu

Civil engineering Professors Edmond Cheng and Arthur Chiu received a grant from the National Science Foundation in support of their project called "A Study of Extreme Wind Regionalization." In response to the recent destruction by hurricanes in the coastal U.S., the study will improve the urgently needed engineering knowledge of extreme wind effects on various structures and the environment. Specifically, Cheng and Chiu will focus on the refinement of extreme wind simulation computer models applicable to regions with different climate patterns, the development of sophisticated computer models for microzonation of extreme winds for obtaining local characteristics, and the regionalization of extreme winds in the United States.

Deane Kihara

Deane Kihara, assistant dean for the College of Engineering was awarded a grant by the Hawaii Department of Education. This grant is intended for Kihara's project entitled "Summer Program of the Enhancement of Basic Education - Engineering 1993." This program is designed to expose high school juniors to the rudiments of engineering practice through a coordinated program of lectures, recitations, laboratory experiments and projects, and field trips. The program will cover several topics related to engineering, including a case study of a typical engineering project.

Eun Sok Kim

Textronic, Inc. recently granted research funds for a project conducted by Eun Sok Kim, an assistant professor in electrical engineering. Kim will be conducting a research project called "Fabrication and Characterization of Silicon Nitride Membranes."

Shu Lin

Electrical Engineering Chairman Shu Lin recently received a grant from the National Aeronautics & Space Administration. Using this grant, Lin will conduct his research entitled "Low-Complexity, High Performance, Bandwidth Efficient Coding & Coded Modulation Techniques for Satellite & Space Communications." This research will contribute to the development of high-speed global computer networking of various types of data.

Vinod Molhotra

The U.S. Army Research Office granted EE Assistant Professor Vinod Malhotra continued funding for his research. Malhotra will use the funding for his project entitled "Passivation of III-V Surfaces for Applications and Devices: A Proposed Research Plan for Graduate Students."

Patrick Phelan

Patrick Phelan, an assistant professor in mechanical engineering, received a research grant from the Engineering Foundation. Phelan will be conducting a project called "Microscale Point-Contact Transient Temperature Sensors."

New Staff



Cathy Nishimura

Joining the electrical engineering department staff as clerk typist II is Cathy Nishimura. Nishimura moved to Hawaii about three years ago from her hometown in Toronto, Canada. A worldly traveller,

Nishimura has ventured to many places such as China, Japan, Europe, Mexico and South America.

In her spare time, she enjoys reading, ceramics, hiking and jogging.

Nishimura said she likes working at the EE department.

"There is always something different to do everyday," she said. It is not a routine position."

Nishimura works closely with Kazutoshi Najita, EE professor and associate chairman.

Potentially, his work can exert a great impact on the thermal design of microelectronic devices. If proven feasible, the sensors from his research can be used to measure accurately the microscale transient temperature distribution in high-speed microelectronic systems, thus benefiting the design of advanced electronic devices.

Alexander Quilici

Electrical engineering Assistant Professor Alexander Quilici received a research award from the National Science Foundation, in support of his project entitled "RIA: Recognizing and Revising Unsatisfactory Explanations." Quilici's research will be focused on the ability of expert and advice-giving systems to understand user responses to the systems' explanations and to revise the explanations accordingly.

Ronald Riggs

Associate Professor of civil engineering Ronald

Riggs was awarded a research grant by the National Aeronautics & Space Administration. With this grant, Riggs will be conducting a project entitled "Improved Stress Recovery & Error Estimation in Finite Element Analysis." He will be developing an improved procedure for recovery of finite element stresses as well as an error estimator that can be used in automated, adaptive finite element analysis.

Galen Sasaki

The National Science Foundation awarded Galen Sasaki continued funding for his research project called "PYI: Communication Networks and Optimization Methods." Sasaki is an associate professor with the electrical engineering department. The focus of his project is on the development and evaluation of protocols and architectures for large high-speed communication networks.

Alumni News



Donald C.W. Kim (CE 58) was initiated as a Chapter Honor Member at the 1993 Spring Formal Initiation & Banquet of the UH chapter of Chi Epsilon, a national civil engineering honor society. Each year, the UH Chapter of Chi Epsilon nominates a civil engineer for the chapter honor membership. The candidate should be one who has attained a degree of eminence in the engineering profession and who exhibits experience and ability worthy of emulation by young civil engineers. The candidate must receive votes from at least three-quarters of the total chapter voting membership and be approved by the Supreme Council of Chi Epsilon. In addition, the candidate must have a minimum of 10 years of working experience as a registered professional engineer.

Kim is currently president and chairman of the Board of the R.M. Towill Corporation. He is also president and director of the Kilohana Corporation, founder and chairman of the Board at AMKOR A&E, Inc., and co-founder and chairman of the Board of Keahole Associates.

In addition to achieving excellence in his profession, Kim participates actively in many professional organizations. He has received numerous honors including the UH 75th Anniversary Rainbow Award of Distinguished Alumni. He has been listed in the **Engineers in Distinction** by the Engineering Joint Council of the U.S.A., and in **Who's Who in Engineering** by the American Association of Engineering Societies.

1940s

Leroy Rathburn (CE 49) is retired. He currently lives in Honolulu.

1950s

Wallace Dung (CE 50) is retired and resides in Honolulu. • **Wayne Duncan (CE 50)** is spending his retirement here in Honolulu. • **Owen Miyamoto (CE 50)** works as the airports administrator for the Hawaii State Department of Transportation. • **Eugene Marchal (CE 51)** is retired and lives in Williamsport, Pennsylvania. He has five children and six grandchildren. • **Stanley Fujimoto (CE 52)** was transferred from OCI General Contractors to Pacific Homes last year. He currently works as a project manager. • **Thomas Look (CE 55)** is chief of field operations for the Honolulu Board of Water Supply. • **William Hee (CE 56)** is president of the Engineers Surveyors Hawaii, Inc. • **Edward Hirata (CE 56)** is vice president of planning for the Hawaiian Electric Company. As someone with a long history of service to the University and the community, he is a member of the College's 1993-1994 Fund Drive Corporate Committee, the UH ROTC Alumni Association, the UH Foundation, the Hui Kokua

Kinipopo and Na Koa. The UH Alumni Association recently recognized Hirata as a 1993 Distinguished Alumnus. In response to the recognition, Hirata said, "My engineering training, which is based on developing sound, logical, analytical and design skills, coupled with the leadership training I received in the Army ROTC program, have enabled me to achieve success in a variety of positions, some unrelated to my basic engineering discipline. The debt I owe to UH is one that I can never fully repay." • **Harold Hamada (CE 57)** is chairman of the civil engineering department at the College of Engineering. • **Carl Nagami (CE 57)** works for the Honolulu Board of Water Supply as chief of the computer services division. • **Salwyn Chinn (CE 59)** is retired and lives in Kailua.

1960s

Robert Lau (GE 60) is president of EDP Hawaii Inc. • **Ikuo Takenaka (CE 60)** works as a project engineer for the construction management at AML Joint Venture. • **Stanley Arakaki (CE 61)** is a program project manager for the civil engineering division of the Army Corps of Engineers. He lives in Mililani. • **Malcolm Fukumoto**

(CE 61) is a plant engineering and facilities manager at ITT Gilfillan. He resides in Valencia, CA. • **Henry Nakatani (CE 64)** works at the State of Hawaii Public Works Division as the design branch chief. • **Ronald Flegal (ME 66)** teaches at Leeward Community College and is an assistant professor of physics and engineering. This fall, Flegal will become the UH Alumni Association Campus Representative at LCC. He believes that whenever there is a large number of UH alumni at one place, the presence of an on-site UHAA representative will make it easier for the association to reach and serve them. By setting an example at LCC, Flegal hopes that others will offer to serve as UHAA representatives on other campuses. • **Ronald Iwata (ME 67)** is a mechanical engineer at the Naval Sea Support Center Pacific. He lives in Pearl City. • **Douglas Kamiya (CE 67)** is a project engineer at the Community Planning, Inc. • **Earl Kanehira (EE 67)** is a senior contract administrator at GTE Hawaiian Tel. • **Rodney Kawamura (CE 67)** is president of Hilo Engineering, Inc.

continued on next page

ENGINEERING ALUMNI UPDATE

Name _____		
Address _____		Phone Bus () _____
City _____	State _____	Zip Code _____ Res () _____
Employer/Company _____		
JobTitle/Description _____		
Year Graduated (BS) _____	Major (CE, ME, EE?) _____	Graduate degrees _____
News about children, marriages, promotions, hobbies, travel, etc.		

If you want to join the Engineering Alumni Association or pay your 1993 dues, please use this form. Annual membership rate is \$10/year. Annual membership rates for the University of Hawaii Alumni Association are: Oahu: New Graduate - \$25, Single - \$35, Couple - \$45. Mainland/Neighbor Islands: Single - \$20, Couple - \$30. Rates for Single and Couple Life Members are \$500 and \$800, respectively. \$10 of whatever category you choose will go to the Engineering Association for dual membership. Make your check payable to Engineering Alumni Association and mail to P.O. Box 12204, Honolulu, HI 96828.

Alumni News

Wesley Takemori (ME 68) works as a mechanical engineer at the Pearl Harbor Naval Shipyard. • **Daniel Miyasato** (CE 69) is vice president of Sato & Associates, Inc.

1970s

Alan Okinaka (EE 70) works for GTE Hawaiian Tel as the island manager for Hawaii. He resides in Hilo. • **Michael Pang** (EE 70) works as a nuclear engineering supervisor at the Pearl Harbor Naval Shipyard. • **Carl Shimazu** (CE 73) is a program manager for the Pacific Division of the Naval Facilities Engineering Command. • **Alan Wong** (ME 74) works for the Hughes Aircraft Company as a senior project engineer. His responsibilities include developing space defense initiative projects, and designing as well as integrating kinetic kill vehicles. • **Rudy Mina** (CE 75) is an engineer at Trans Pacific Land Corp. • **Ranold Fujioka Jr.** (CE 78) is a supervisory environmental engineer at the Navy Public Works Center. • **Eric Hee** (CE 78) works as a civil engineer at Engineers Surveyors Hawaii, Inc. • **George Kuo** (CE 78) is a civil engineer at the Honolulu Board of Water Supply. • **Carol Minami** (CE 78) works for GTE Hawaiian Tel as an area pricing administrator. • **Laverne Higa** (CE 79) is a civil engineer at

C&C of Honolulu. • **Jason Takaki** (CE 79) is a civil engineer at the Honolulu Board of Water Supply.

1980s

Shirley Matoi (CE 80) works for the Pacific Division of Naval Facilities Engineering Command as a civil engineer. • **Donald Kaneshige** (EE 81) is chief of electric design section of the U.S. Army Engineer District Japan. • **Mark Nagamatsu** (CE 83) works as a structural engineer at Greeng Engineering Co. • **Blake Araki** (ME 84) works at the mechanical section of the University of Hawaii facilities management office as a registered engineer I. • **Steve Ikenaga** (CE 84) is a civil engineer for R.M. Towill Corp. • **Glenn Hamasaki** (EE 85) works as a test and evaluation systems engineer for Texas Instruments - Defense Systems and Electronics Group. • **Lester Lau** (CE 85) is a civil engineer III at the Hawaii Department of Transportation. • **Milton Matsuo** (EE 86) works for the Department of Army as an electronics engineer. • **Walter Billingsley** (CE 87) is a civil and sanitary engineer at Belt Collins & Associates. • **James Kurata** (EE 87) is an electrical engineer for Ronald N.S. Ho & Associates. • **Linda Monden** (CE 87) works for Carlsmith, et al. as an attorney. She resides in Kihei. • **Dane**

Wurlitzer (ME 88) is a plant engineer for Hawaiian Cement. • **Darcy Barrios** (EE 89) works at the Port Hueneme Division of the Naval Surface Warfare Center. She lives in Ventura, CA. • **Sarah Hirakami** (ME 89) no longer works at Boeing. She is now a mechanical engineer at Pearl Harbor. • **Cheryl Kimura** (EE 89) is an electronic engineer at the Pacific Missile Range Facility of the Department of Navy.

1990s

Suzanne Baba (CE 90) is an environmental engineer for the U.S. Army Corps of Engineers. She resides in Pearl City. • **Wesley Kuykendall** (ME 90) is pursuing his graduate studies at the University of Colorado. • **Barry Muranaka** (CE 90) works for Akinaka & Associates, Ltd. as a civil engineer. • **Gregg Takashige** (ME 90) is doing graduate work at the University of California at Berkeley. • **Aileen Taomoto** (EE 90) is a device engineer for Motorola, Inc. • **Angela Tokunaga** (CE 90) works as a civil engineer for Wilson Okamoto & Associates. • **Dina Ueoka** (CE 90) works as an assistant civil engineer for the State of California Department of Transportation.

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